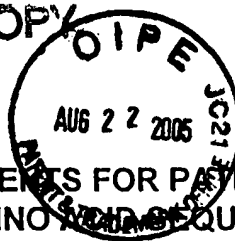


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JUL 25 2005



Application No.: 10/785, 220

NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING
NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE DISCLOSURES

The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 C.F.R. 1.821 - 1.825 for the following reason(s):

- ☒ 1. This application clearly fails to comply with the requirements of 37 C.F.R. 1.821-1.825. Applicant's attention is directed to these regulations, published at 1114 OG 29, May 15, 1990 and at 55 FR 18230, May 1, 1990.
- ☐ 2. This application does not contain, as a separate part of the disclosure on paper copy, a "Sequence Listing" as required by 37 C.F.R. 1.821(c).
- ☐ 3. A copy of the "Sequence Listing" in computer readable form has not been submitted as required by 37 C.F.R. 1.821(e).
- ☐ 4. A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 C.F.R. 1.822 and/or 1.823, as indicated on the attached copy of the marked -up "Raw Sequence Listing."
- ☐ 5. The computer readable form that has been filed with this application has been found to be damaged and/or unreadable as indicated on the attached CRF Diskette Problem Report. A Substitute computer readable form must be submitted as required by 37 C.F.R. 1.825(d).
- ☐ 6. The paper copy of the "Sequence Listing" is not the same as the computer readable form of the "Sequence Listing" as required by 37 C.F.R. 1.821(e).
- ☒ 7. Other: See attachment.

Applicant Must Provide:

- ☒ An initial or substitute computer readable form (CRF) copy of the "Sequence Listing".
- ☒ An initial or substitute paper copy of the "Sequence Listing", as well as an amendment directing its entry into the specification.
- ☒ A statement that the content of the paper and computer readable copies are the same and, where applicable, include no new matter, as required by 37 C.F.R. 1.821(e) or 1.821(f) or 1.821(g) or 1.825(b) or 1.825(d).

For questions regarding compliance to these requirements, please contact:

For Rules Interpretation, call (703) 308-4216

For CRF Submission Help, call (703) 308-4212

For PatentIn software help, call (703) 308-6856

PLEASE RETURN A COPY OF THIS NOTICE WITH YOUR RESPONSE

STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/785,270A
Source: FEW16
Date Processed by STIC: 4-6-05

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.2.2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - cPAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05): U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/24/05

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER:

10/785,220A

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1 _____ Wrapped Nucleics
Wrapped Aminos

The number at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .5; this will prevent "wrapping."

2 _____ Invalid Line Length

The rules require that a line not exceed 72 characters in length. This includes white spaces.

3 _____ Misaligned Amino
Numbering

The numbering under each 5' amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.

4 _____ Non-ASCII

The submitted file was not saved in ASCII(DOS) format, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.

5 _____ Variable Length

Sequence(s) _____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.

6 _____ PatentIn 2.0
"bug"

A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.

7 _____ Skipped Sequences
(OLD RULES)

Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence:
(1) INFORMATION FOR SEQ ID NO X (insert SEQ ID NO where "X" is shown)
(2) SEQUENCE CHARACTERISTICS (Do not insert any subheadings under this heading)
(3) SEQUENCE OF SKIPPED SEQ ID NO X (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped

Please also adjust the "(1) NUMBER OF SEQUENCES" response to include the skipped sequences.

8 _____ Skipped Sequences
(NEW RULES)

Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence:
<210> sequence id number
<400> sequence id number
000

9 _____ Use of n's or Xaa's
(NEW RULES)

Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
Per 1.823 of Sequence Rules, the only valid <221> responses are Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <221> response is Unknown, Artificial Sequence, or scientific name.

10 _____ Invalid <221>
Response

11 _____ Use of <210>

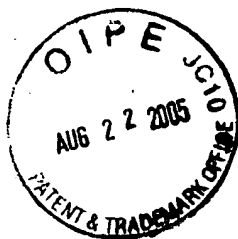
Use of <220> to <223> is MANDATORY if <221> "Organism" response is "Artificial Sequence" or "Unknown". Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 00/01/1998, Vol 63, No 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)

12 _____ PatentIn 2.0
"bug"

Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

13 _____ Misuse of n/Xaa

"n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid



IFW16

RAW SEQUENCE LISTING DATE: 04/06/2005
 PATENT APPLICATION: US/10/785,220A TIME: 14:13:57

Input Set : A:\39780-1216.TXT
 Output Set: N:\CRF4\04062005\J785220A.raw

4 <110> APPLICANT: Ashkenazi, Avi J.
 5 Fong, Sherman
 6 Goddard, Audrey
 7 Gurney, Austin L.
 8 Napier, Mary A.
 9 Tumas, Daniel
 10 Wood, William I.
 12 <120> TITLE OF INVENTION: COMPOUNDS, COMPOSITIONS AND METHODS FOR
 13 THE TREATMENT OF DISEASES CHARACTERIZED BY A33- RELATED
 14 ANTIGENS
 16 <130> FILE REFERENCE: P1216R1C1D4
 18 <140> CURRENT APPLICATION NUMBER: 10/785,220A
 19 <141> CURRENT FILING DATE: 2004-02-24
 21 <150> PRIOR APPLICATION NUMBER: US 09/254,465
 22 <151> PRIOR FILING DATE: 1999-03-05
 24 <150> PRIOR APPLICATION NUMBER: PCT/US98/24855
 25 <151> PRIOR FILING DATE: 1998-11-20
 27 <150> PRIOR APPLICATION NUMBER: US 60/066,364
 28 <151> PRIOR FILING DATE: 1997-11-21
 30 <150> PRIOR APPLICATION NUMBER: US 60/078,936
 31 <151> PRIOR FILING DATE: 1998-03-20
 33 <150> PRIOR APPLICATION NUMBER: PCT/US98/19437
 34 <151> PRIOR FILING DATE: 1998-09-17
 36 <160> NUMBER OF SEQ ID NOS: 30
 38 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 40 <210> SEQ ID NO: 1
 41 <211> LENGTH: 299
 42 <212> TYPE: PRT
 43 <213> ORGANISM: Homo sapiens
 45 <400> SEQUENCE: 1
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 48 Leu Ala Ile Leu Leu Cys Ser Leu Ala Leu Gly Ser Val Thr Val His
 49 20 25 30
 50 Ser Ser Glu Pro Glu Val Arg Ile Pro Glu Asn Asn Pro Val Lys Leu
 51 35 40 45
 52 Ser Cys Ala Tyr Ser Gly Phe Ser Ser Pro Arg Val Glu Trp Lys Phe
 53 50 55 60
 54 Asp Gln Gly Asp Thr Thr Arg Leu Val Cys Tyr Asn Asn Lys Ile Thr
 55 65 70 75 80
 56 Ala Ser Tyr Glu Asp Arg Val Thr Phe Leu Pro Thr Gly Ile Thr Phe
 57 85 90 95
 58 Lys Ser Val Thr Arg Glu Asp Thr Gly Thr Tyr Thr Cys Met Val Ser

Does Not Comply
 Corrected Diskette Needed
 (pg.3-4) ←

RAW SEQUENCE LISTING

DATE: 04/06/2005

PATENT APPLICATION: US/10/785,220A

TIME: 14:13:57

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61          115          120          125
62 Leu Val Pro Pro Ser Lys Pro Thr Val Asn Ile Pro Ser Ser Ala Thr
63          130          135          140
64 Ile Gly Asn Arg Ala Val Leu Thr Cys Ser Glu Gln Asp Gly Ser Pro
65 145          150          155          160
66 Pro Ser Glu Tyr Thr Trp Phe Lys Asp Gly Ile Val Met Pro Thr Asn
67          165          170          175
68 Pro Lys Ser Thr Arg Ala Phe Ser Asn Ser Ser Tyr Val Leu Asn Pro
69          180          185          190
70 Thr Thr Gly Glu Leu Val Phe Asp Pro Leu Ser Ala Ser Asp Thr Gly
71          195          200          205
72 Glu Tyr Ser Cys Glu Ala Arg Asn Gly Tyr Gly Thr Pro Met Thr Ser
73          210          215          220
74 Asn Ala Val Arg Met Glu Ala Val Glu Arg Asn Val Gly Val Ile Val
75 225          230          235          240
76 Ala Ala Val Leu Val Thr Leu Ile Leu Leu Gly Ile Leu Val Phe Gly
77          245          250          255
78 Ile Trp Phe Ala Tyr Ser Arg Gly His Phe Asp Arg Thr Lys Lys Gly
79          260          265          270
80 Thr Ser Ser Lys Lys Val Ile Tyr Ser Gln Pro Ser Ala Arg Ser Glu
81          275          280          285
82 Gly Glu Phe Lys Gln Thr Ser Ser Phe Leu Val
83          290          295
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87 <211> LENGTH: 321
88 <212> TYPE: PRT
89 <213> ORGANISM: Homo sapiens
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94 Thr Tyr Gly Arg Pro Ile Leu Glu Val Pro Glu Ser Val Thr Gly Pro
95          20          25          30
96 Trp Lys Gly Asp Val Asn Leu Pro Cys Thr Tyr Asp Pro Leu Gln Gly
97          35          40          45
98 Tyr Thr Gln Val Leu Val Lys Trp Leu Val Gln Arg Gly Ser Asp Pro
99          50          55          60
100 Val Thr Ile Phe Leu Arg Asp Ser Ser Gly Asp His Ile Gln Gln Ala
101 65          70          75          80
102 Lys Tyr Gln Gly Arg Leu His Val Ser His Lys Val Pro Gly Asp Val
103          85          90          95
104 Ser Leu Gln Leu Ser Thr Leu Glu Met Asp Asp Arg Ser His Tyr Thr
105          100          105          110
106 Cys Glu Val Thr Trp Gln Thr Pro Asp Gly Asn Gln Val Val Arg Asp
107          115          120          125
108 Lys Ile Thr Glu Leu Arg Val Gln Lys Leu Ser Val Ser Lys Pro Thr
109          130          135          140
110 Val Thr Thr Gly Ser Gly Tyr Gly Phe Thr Val Pro Gln Gly Met Arg

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RAW SEQUENCE LISTING

DATE: 04/06/2005

PATENT APPLICATION: US/10/785,220A

TIME: 14:13:57

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Output Set: N:\CRF4\04062005\J785220A.raw

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111 145          150          155          160
112 Ile Ser Leu Gln Cys Gln Ala Arg Gly Ser Pro Pro Ile Ser Tyr Ile
113          165          170          175
114 Trp Tyr Lys Gln Gln Thr Asn Asn Gln Glu Pro Ile Lys Val Ala Thr
115          180          185          190
116 Leu Ser Thr Leu Leu Phe Lys Pro Ala Val Ile Ala Asp Ser Gly Ser
117          195          200          205
118 Tyr Phe Cys Thr Ala Lys Gly Gln Val Gly Ser Glu Gln His Ser Asp
119          210          215          220
120 Ile Val Lys Phe Val Val Lys Asp Ser Ser Lys Leu Leu Lys Thr Lys
121 225          230          235          240
122 Thr Glu Ala Pro Thr Thr Met Thr Tyr Pro Leu Lys Ala Thr Ser Thr
123          245          250          255
124 Val Lys Gln Ser Trp Asp Trp Thr Thr Asp Met Asp Gly Tyr Leu Gly
125          260          265          270
126 Glu Thr Ser Ala Gly Pro Gly Lys Ser Leu Pro Val Phe Ala Ile Ile
127          275          280          285
128 Leu Ile Ile Ser Leu Cys Cys Met Val Val Phe Thr Met Ala Tyr Ile
129          290          295          300
130 Met Leu Cys Arg Lys Thr Ser Gln Gln Glu His Val Tyr Glu Ala Ala
131 305          310          315          320
132 Arg

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136 <210> SEQ ID NO: 3

137 <211> LENGTH: 390

138 <212> TYPE: DNA

139 <213> ORGANISM: Artificial Sequence

141 <220> FEATURE:

142 <223> OTHER INFORMATION: Artificial sequence

144 <400> SEQUENCE: 3

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145 cttcttgcca actggtatca ctttcaagtc cgtgacacgg gaagacactg ggacatacac 60
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147 gcttgtgcct ccatccaagc ctacagttaa cateccctcc tctgccacca ttgggaaccg 180
148 ggcagtgtcg acatgtcag aacaagatgg tccccacct tctgaataca cctggttcaa 240
149 agatgggata gtgatgccta cgaatcccaa aagcaccgt gccttcagca actcttcccta 300
150 tgtcctgaat ccacaacag gagagctggt cttgatccc ctgtcagcct ctgatactgg 360
151 agaatacagc tgtgaggcac ggaatgggta

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153 <210> SEQ ID NO: 4

154 <211> LENGTH: 726

155 <212> TYPE: DNA

156 <213> ORGANISM: Artificial Sequence

158 <220> FEATURE:

159 <223> OTHER INFORMATION: Artificial sequence

161 <400> SEQUENCE: 4

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162 tctcagtcgc ctgctgtag tcgaggagct gtgttctgtt tcccaggagt ccttcggcgg 60
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164 tgttgtgctt ctcatattg gcgatcctgt tgtgtccctt ggcattgggc agtggtacag 180
165 ttgcactctt ctgaacctga agtcagaatt cctgagaata atcctgtgaa gttgtcctgt 240
166 gctactcgg gcttttcttc tcccgtgtg gagtggaggt ttgaccaagg agacaccacc 300
167 agactcgttt gctataataa caagatcaca gcttcctatg aggaccgggt gaccttcttg 360

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pls explain source of genetic material

Invalid Response

pls explain source of genetic material

Invalid Response

pls see item # 11 on error summary sheet.

RAW SEQUENCE LISTING

DATE: 04/06/2005

PATENT APPLICATION: US/10/785,220A

TIME: 14:13:57

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Output Set: N:\CRF4\04062005\J785220A.raw

168 ccaactggta tcaccttcaa gtccgtgaca cggaagaca ctgggacata cacttgatg 420
 169 gtctctgagg aaggcggcaa cagctatggg gaggtcaagg tcaagctcat cgtgcttggt 480
 170 cctccatcca agcctacagt taacatcccc tctctgcca ccattgggaa ccgggcagtg 540
 171 ctgacatgct cagaacaaga tgggtcccca cttctgaat acacctggtt caaagatggg 600
 172 atagtgatgc ctacgaatcc caaaagcacc cgtgccttca gcaactcttc ctatgtcctg 660
 173 aatcccacaa caggagagct ggtctttgat cccctgtcag cctctgatac tggagaatac 720
 174 agctgt 726

176 <210> SEQ ID NO: 5

177 <211> LENGTH: 1503

178 <212> TYPE: DNA

179 <213> ORGANISM: Artificial Sequence

181 <220> FEATURE:

182 <223> OTHER INFORMATION: Artificial sequence

184 <400> SEQUENCE: 5

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 186 ccaattgagc accctggaga tggatgaccg gagccactac acgtgtgaag tcacctggca 120
 187 gactctgat ggcaaccaag tctgagaga taagattact gagctccgtg tccagaaact 180
 188 ctctgtctcc aagcccacag tgacaactgg cagcgggtat ggcttcacgg tgcccaggg 240
 189 aatgaggatt agccttcaat gccagggttc ggggttctcc tcccatcagt tatatttggt 300
 190 ataagcaaca gactaataac cagggaaccc atcaaagtag caaccctaag taccttactc 360
 191 ttcaagcctg cggatgtagc cgactcaggc tctatttct gcaactgcaa gggccagggt 420
 192 ggctctgagc agcacagcga cattgtgaag tttgtggtca aagactctc aaagctactc 480
 193 aagaccaaga ctgaggcacc tacaaccatg acataccct tgaaagcaac atctacagt 540
 194 aagcagtcct gggactggag cactgacatg gatggctacc ttggagagac cagtgcgtgg 600
 195 ccaggaaaga gcctgcctgt ctttgccatc atcctcatca tctccttggt ctgtatgggt 660
 196 gtttttacc tggcctatat catgctctgt cggaagacat cccaacaaga gcatgtctac 720
 197 gaagcagcca gggcacatgc cagagaggcc aacgactctg gagaaaccat gaggggtggc 780
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 203 ctaccaacac tggagccgct gggagtcact ggctttgccc tgggaatttg cagatgcatc 1140
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 208 cagcttttaa ttgaaattgt tatctcacag gccagggttc agttctgctc ctccactata 1440
 209 agtctaattg tctgactctc tctggtgct caataaatat ctaatacata cagcaaaaaa 1500
 210 aaa 1503

212 <210> SEQ ID NO: 6

213 <211> LENGTH: 319

214 <212> TYPE: PRT

215 <213> ORGANISM: Homo sapiens

217 <400> SEQUENCE: 6

218 Met Val Gly Lys Met Trp Pro Val Leu Trp Thr Leu Cys Ala Val Arg

219 1 5 10 15

220 Val Thr Val Asp Ala Ile Ser Val Glu Thr Pro Gln Asp Val Leu Arg

221 20 25 30

The type of errors shown exist throughout
 the Sequence Listing. Please check subsequent
 sequences for similar errors.

RAW SEQUENCE LISTING

DATE: 04/06/2005

PATENT APPLICATION: US/10/785,220A

TIME: 14:13:57

Input Set : A:\39780-1216.TXT

Output Set: N:\CRF4\04062005\J785220A.raw

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223      35                      40                      45
224 Thr Ser Ser Arg Glu Gly Leu Ile Gln Trp Asp Lys Leu Leu Leu Thr
225      50                      55                      60
226 His Thr Glu Arg Val Val Ile Trp Pro Phe Ser Asn Lys Asn Tyr Ile
227 65                      70                      75                      80
228 His Gly Glu Leu Tyr Lys Asn Arg Val Ser Ile Ser Asn Asn Ala Glu
229                      85                      90                      95
230 Gln Ser Asp Ala Ser Ile Thr Ile Asp Gln Leu Thr Met Ala Asp Asn
231                      100                     105                     110
232 Gly Thr Tyr Glu Cys Ser Val Ser Leu Met Ser Asp Leu Glu Gly Asn
233                      115                     120                     125
234 Thr Lys Ser Arg Val Arg Leu Leu Val Leu Val Pro Pro Ser Lys Pro
235                      130                     135                     140
236 Glu Cys Gly Ile Glu Gly Glu Thr Ile Ile Gly Asn Asn Ile Gln Leu
237 145                      150                      155                      160
238 Thr Cys Gln Ser Lys Glu Gly Ser Pro Thr Pro Gln Tyr Ser Trp Lys
239                      165                      170                      175
240 Arg Tyr Asn Ile Leu Asn Gln Glu Gln Pro Leu Ala Gln Pro Ala Ser
241                      180                      185                      190
242 Gly Gln Pro Val Ser Leu Lys Asn Ile Ser Thr Asp Thr Ser Gly Tyr
243                      195                     200                     205
244 Tyr Ile Cys Thr Ser Ser Asn Glu Glu Gly Thr Gln Phe Cys Asn Ile
245                      210                     215                     220
246 Thr Val Ala Val Arg Ser Pro Ser Met Asn Val Ala Leu Tyr Val Gly
247 225                      230                      235                      240
248 Ile Ala Val Gly Val Val Ala Ala Leu Ile Ile Ile Gly Ile Ile Ile
249                      245                      250                      255
250 Tyr Cys Cys Cys Cys Arg Gly Lys Asp Asp Asn Thr Glu Asp Lys Glu
251                      260                      265                      270
252 Asp Ala Arg Pro Asn Arg Glu Ala Tyr Glu Glu Pro Pro Glu Gln Leu
253                      275                      280                      285
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262 <212> TYPE: DNA
263 <213> ORGANISM: Homo sapiens
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268 ggggatctta ctgggcctgc tactcctggg gcacctaaca gtggacactt atggcgcgtc 180
269 catcctggaa gtgccagaga gtgtaacagg accttggaag ggggatgtga atcttccttg 240
270 cacctatgac cccctgcaag gctacaccca agtcttggtg aagtggctgg tacaacgtgg 300
271 ctacagaccct gtcaccatct ttctacgtga ctcttctgga gaccatatcc agcaggcaaa 360
272 gtaccagggc cgctgcatg tgagccacaa ggttccagga gatgtatccc tccaattgag 420
273 caccctggag atggatgacc ggagccacta cacgtgtgaa gtcacctggc agactcctga 480

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VERIFICATION SUMMARY

DATE: 04/06/2005

PATENT APPLICATION: US/10/785,220A

TIME: 14:13:58

Input Set : A:\39780-1216.TXT

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- ☐ **OTHER:** _____

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